1/7

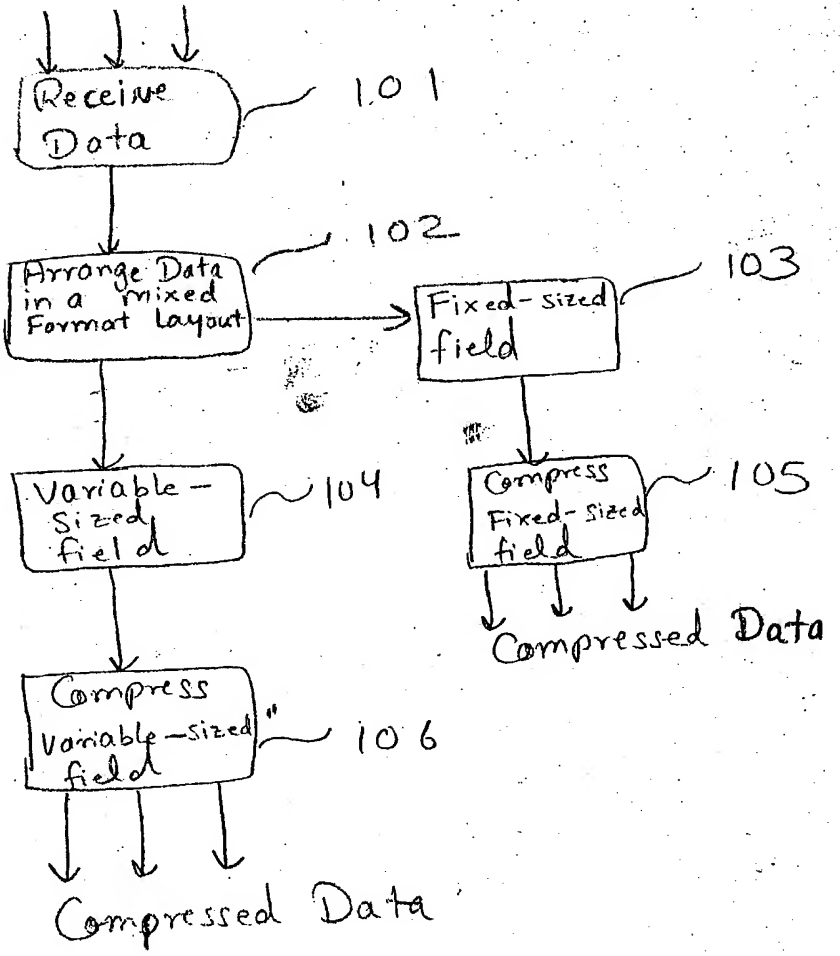
Receive Data
101
Arrange Data in a mixed Format Layout
102
Fixed-sized field
103
Variable-Sized field
104
Compress Fixed-Sized field
105
Compressed Data
Compress Variable-sized field
106
Compressed Data

Fig 1

Fig. 2 Mixed format record layout

Fig. 3. Variant use of offset slots.

Fig. 4 Variant use of field values for larger dictionaries.

An exceptionally large value F_1' for F_1 is stored as an extra variable-sized field. F_1, the fixed slot for it, is used to stored the offset pointer to terminate F_1'.

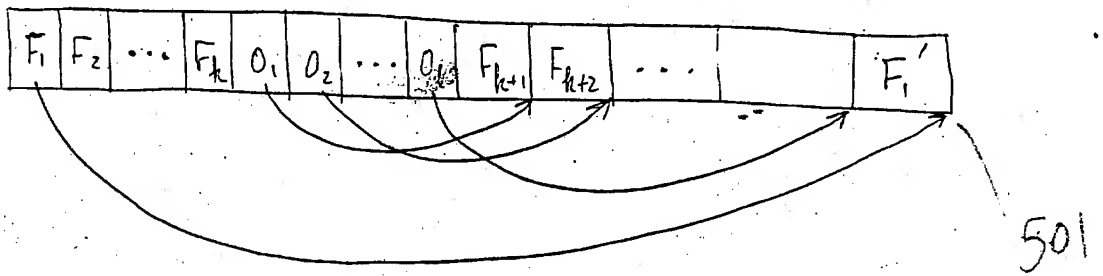

Fig. 5 Exception (overflows) for fix-sized fields.

APP_ID=10065513

Fig. 6 Compressing a group of fields

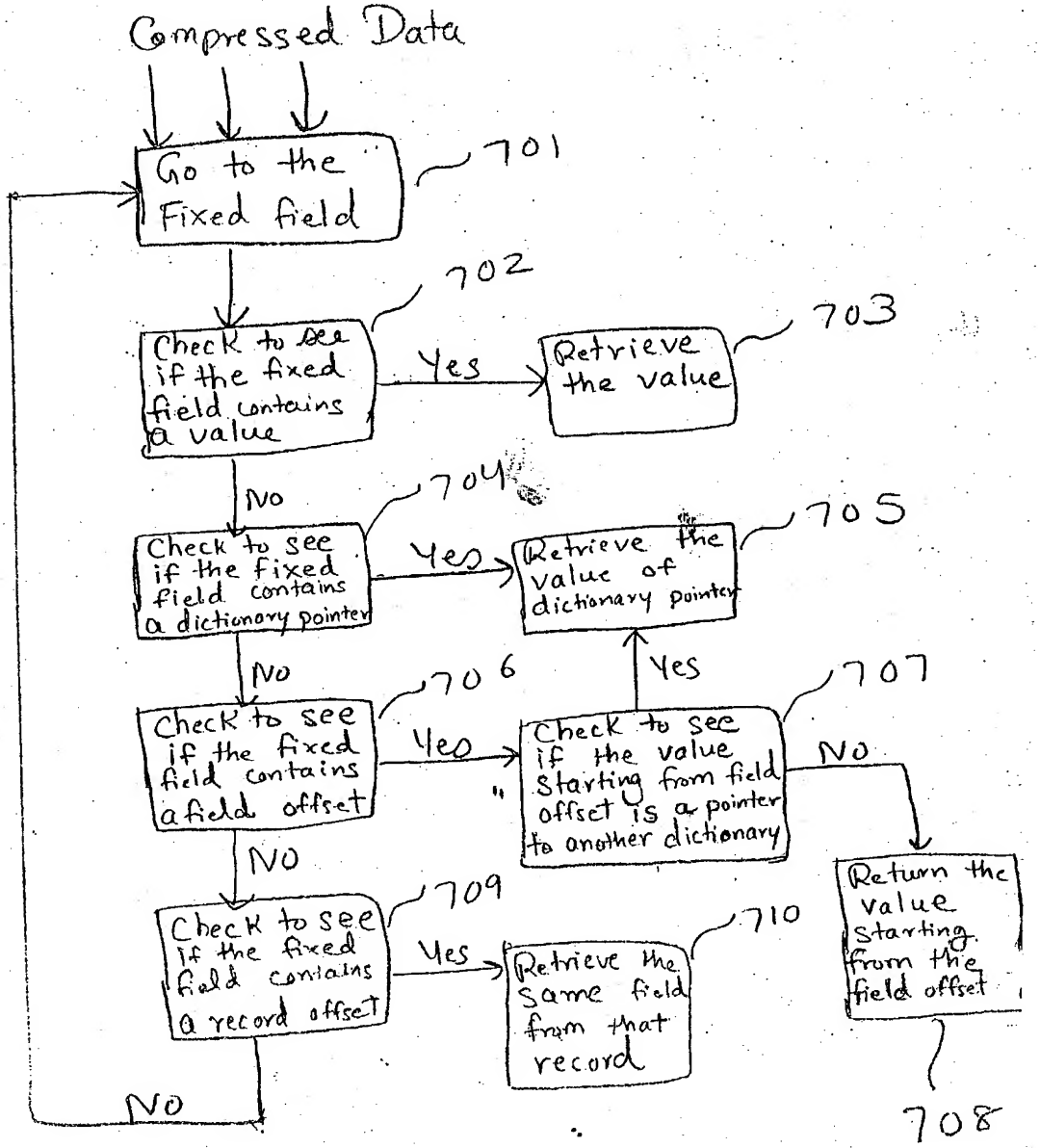
Compressed Data
Go to the Fixed field
701
Check to see if the fixed field contains a value
702
Yes
Retrieve the value
703
No
Check to see if the fixed field contains a dictionary pointer
704
Yes
Retrieve the value of dictionary pointer
705
No
Check to see if the fixed field contains a field offset
706
Yes
Check to see if the value starting from field offset is a pointer to another dictionary
707
Yes
No
Return the value starting from the field offset
708
No
Check to see if the fixed field contains a record offset
709
Yes
Retrieve the same field from that record
710
No

Fig. 7